

AIR-BAND TRANSCEIVERS





SPIRIT Series
FTA-720



Pilot Series



Pro Series FTA-230



SPIRIT Series FTA-720

- BNC Antenna Connector
- Air Band (108 MHz 137 MHz) including NAV (108 MHz 118 MHz) AM 5 W P.E.P. (15 W Carrier)
- Wide-Band FM Broadcast Receive 88 MHz 108 MHz
- VOR Navigation Display
- US BRS Band Reception with CTGSS/DCS Decoder
- NOAA Weather Channel Receive (U.S.A. Dnly)
- · NGAA Weather Alert (U.S.A. Only)
- Rugged Magnesium Die-Cast Construction
- Submersible IPX7 (3 ft. 30 minutes)
- · Long-Life Lithium-ion Battery included
- RX Battery Saver Mode
- 160 Memories with Pre-programmed BOOK Memories
- Multi-Color Strobe LED for Status Indication and Emergency Light in Dark
- · Back-lit Keypad and Display with Dimmer
- One-Touch Emergency Frequency Access(121.5 MHz)

Air Band Operation, VOR Navigation, FM Broadcast and US BRS Band Receiption included

The multiple expelipties of the FTA-#20 yield unmatched operating and monitoring apparturilles for the owner on the got Besides full voice transmit and receive operation on the Air Band, the FTA-720 also prevides extensive VOR and CDI Nevigation tools, along with convenient reception of the FM Broetcest band during down time, And you get the additional monitoring exchangest afforded by receiver coverage of the Business Radio Service (BRS) pand, a YAESu exclusive!

Rugged Magnesium Die-Gast Construction

Die upmistelred ruggedness of the FTA-720 is coupled with utina-light weight, theries to the dis-cast magnesium case and chaste construction. Rupber bumpers on the bottom comers of the case protect it against demage from every-day bumps and scrapes,

Supplied Rechargeable Lithium-Ion Battery

The FTA-720 is supplied with a super-long-kie 7.4 V, Typ, 1500 m/sh Lithium-lon Rattery Pack #NB-60LI], providing many hours of operation and reliable charging without the "memory" affects that can plague other ballery types. With the optional CD-35A. Charging Stand and PA-488/C/U" AC Adapter, the FNB-901, I may be charged in as little as \$ hours, so you'll quickly be ready for more operating actions.

Dot Matrix Display

The FTA-720's 132 x 64 dot matrix display provides clear, easy to ready indicator, of frequency and Nevigebon data, the FTA-720's display includes an unperalleled array of graphical and pictorial tools to simplify operation in flight,

VOR NAVIGATION DISPLAY (NAV BAND 108:000 - 117:975 MHz)

COURSE MANUAR "TO"- "FROM" Flag Indicator YOR MODE

KITURISE INDUSTRIA COURSE Division Avenue

CDI MODE

DIEDELOW INSTITUTE TO "TO"- "FROW" Fing Individual - GENERAL VOR EQUIPMENT



SUPPLIED ACCESSORES:

*Union Sallery Pays (7,4 V, Typ. 1500 mAN FNS-60L) *Ballery Charges P4. 48B/C/U" +BNC Helical Avcenna 9344-74 +Headsel

ACCESSORIES & AVAILABLE OPTIONS



CD-156



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DC Cable Sugarages and expedient | williams Figure



"9" to 170940 / "C" for 270-240 WAS / "L" for 250-948 WAS WAS Plug.

Pilot Series

- BNC Antenna Connector
- 5 Watts TX Output Power (at 7.2 V. 5 W P.E.P. typ., 1.5 W carrier)
- Laud Audio (800 mW)
- VOR Navigation Display
- 250 Memory Channels (Inc. Pre-Programmed Book Memory Channels)
- Receiver Audio Pitch Control
- 6 Character Alpha Numeric Display
- Back-lit Keypad and Display with Dimmer
- One Touch Emergency Frequency Access (121.5 MHz)
- Rugged and Submersible Construction IPX7 (3 feet /1 m for 30 minutes).
- NOAA Weather Channel Receive (U.S.A. Only)
- NOAA Weather Aiert (U.S.A. Only)
- · RX Battery Saver
- VGX Operation (Voice-activated Transmit/Receive switching)
- Supplied with 12 V DC Charging Sieeve for in-flight operation.
- PC Programmable

ULTRA RUGGED, SUBMERSIBLE CASE CONSTRUCTION

The FTA-310 is built-made a rugged Aluminum case, carefully sealed to protect against water agress. Built to survive immersion in water for up to 30 minutes at a depth of three feet, the FTA-310 can keep you communicating even if if gets wet. If you have to gitch!

RECEIVER AUDIO PITCH CONTROL

For improved reception under difficult conditions, the receiver's audio frequency. response may be quickly adjusted by the user, to enhance either the high-frequency or low-frequency components, depending on the noise and/or interference ensountered. A VAESIF exclusive

ONE TOUCH SQUELCH CONTROL

Resistant the aquaich threshold has never been easier Press the menter fulfill in then for two seconds to open the FTA+310's squeich continuously. Press MCRI again to restore the original squelch settings. This is TRUE one-handed operation, without the need to furnite appund with tightly spaced concentric knobs.

NOAA WEATHER CHANNELS (U.S.A. Only)

The FTA-310 can receive all 10 NOAA weather broadcast frequencies. The Automatic Active Weather Channel Locator (a YAESU exclusive) automatically scame for active NDAA weather stations in your area when WX band is selected.

VERSATILE SCANNING FEATURES

The FTA:310's reseable scanning capability allows you to monitor a number of different channels afficiently. The FTA-310 will seen the COM beng main or Book memories, or the Weather band (U.S. A. Only), and also includes provision for Dual Walch and Priority Revert Eucl Watch that always ensures transmission on a "Priority" charnel,

VOR NAVIGATION DISPLAY SNAV BAND 108,000 - 117,975 MHb) DOURSE MUNICIPAL TOTA "FROM" Flag Indicators DYOR MODE

EDUNSE betweier ENUISE Designer-Weight

CDI MODE THE TRACKS HAVE INDUSTRY DESCRIPTION INSTRUCTOR



SUPPLIED ACCESSORIES:

N-MH Ballery Peck 17,29, 1900-AH FNB-63 (Balley Charge PA-41B/C/U* •Charger Cradia CD-28 •DC Sleeve Charger CD-64 HIND Paled Antenna YHA/73 *Quies Daw Ball Dip CLIP-14 Headest Cable CT-96 -Alkabia Battery Case FSA-25A

ACCESSORIES & AVAILABLE OPTIONS



FBA-25A

Ababre Coll furthery Care DC Admits

E-00-4 \$10 Cable: plag mich

DC Aleeve Charger

fufficient or particular ten establish "B" to TADUAG / "C" for 221-240 WAC / "U" for 250-241 WAC 10/K Plon.

Pro Series

BNG Antenna Connector

- 6 Watts TX Output Power (at 7.2 V. 5 W P.E.P. typ., 1.5 W carrier)
- Loud Audio (700 mW)
- 250 Memory Channels (Incl. Pre-Programmed Book Memory Channels)
- Last Channel Recall (Flip Flop) Function
- 8 Character Alpha Numeric Display
- Back-lit Keypad and Display with Dimmer
- One Touch Emergency Frequency Access (121.5 MHz)
- Rugged and Submersible Construction IPX7 (3 feet/1 m for 30 minutes)
- NOAA Weather Channel Receive (U.S.A. Only)
- NOAA Weather Aiert (U.S.A. Only)
- · RX Battery Saver
- VOX Operation (Voice-activated Transmit/Receive switching)
- Supplied with 12 V DC Charging Sieeve for in-flight operation.
- PC Programmable

Rugged and Submersible Construction IPX7 (3 feet/1 m for 30 minutes)

The FTA-230 is built halde a rugged Aluminum case, carefully sealed to protect against water ingress, Built to survive immerator, in water for up to 30 minutes at a depth of three feet, FTA-230 can keep you communicating even if it gets wet due to severe weather or unforeseen water landings.

Back-lit Keypad and Display with Dimmer

For quick access to operating troopsencies, simply onter the troquency information directly from the 17 outlon keyped, then press the "Push To Talk" (PTT) button to transmit. There is no need to store frequencies in memory before operating.

NOAA Weather Channel Receive (U.S.A. Only)

The FTA-230 can receive at 10 NOAA weather broadcast frequencies. The Automatic Active Weather Cheme Locator (a YAESU exclusive) automatically scars for active NOAA wealther stations in your area when WX band is selected.

NGAA Weather Alert (U.S.A. Crity)

The FTA-230 includes a special feature that sounds an alarm when the special "Severe Weather" alert tone is received from a Weather Broadcast station, This warns you of petentially hazardous flying conditions,

One Touch Emergency Frequency (121,5 MHz) Access

For lightning-test access to the 121.5 MHz Emergency Frequency, a decileated key on the front paniel assures you of no datays in summoning help in an expergency.

3-WAY DISPLAY TITLING AND BACK-LIT DISPLAY

Easy to use, versable access to channel information is critical to successful transcelver operation. Only YAESU Airband Durabewers offer you are-keystroke access to three different methods of algolaping memory channel information: Frequency, Channel Number, or Alpha-Numeric title,

SUPPLIED ACCESSORES:

+NEMH Battery Pack (7,1%, 1490 FAR) FAB-63 +Battery Charges PA-48B/C/U* +Charger Crade CD-32 +DC-Sleeve Charger CD-59 #BNC Palled Antonna YHA-78 +Francisci Cable CT-96 +Alkalive Battery Case FSA-25A

ACCESSORIES & AVAILABLE OPTIONS





CD-Es

E-0rd-em

Allialine Call (Listery Case | DC Cable (batteries not supplied) w/Moras Filter

DC Cable plug and mire only

E-DC-6

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** Reserved Pil. BERTONI**

FBA-25A

Specifications	SPIRIT Series FTA-720	Pilot Series FTA-310	Pro Series FTA-230
General			
Frequency Fange	TX: 118.000 - 136.975 MHz (COM Band) RX: 44.000 - 106.000MHz (FM BC Band) 104.000 - 117.975 MHz (VVV Band) 118.000 - 136.975 MHz (COM Band) 151.5125 - 136.400MHz (BRS Chandel) Whather Changels (WX-D) - WX-1004A version any)	TX: 114,000 - 134,975 MHz RX: 108,000 - 117,975 MHz (NAV Bend) 114,000 - 114,975 MHz (SOM Bend) Weather Channels (WX-01 - WX-10-USA version anly)	TX: 114,000 - 124,975 MHz RX: 104,000 - 134,975 MHz Weather Channels (WX-01 - WX-10, USA yerason only)
Channel Spacing	5/10/12.5/15/20/25/50/100 M/g	25 的位形,33 Mg (8.92 Miz: N.X anh)	25 同位于4,83 同位用来自由的
Emission Type	TX: AM & FM	TK: AM RK: AM & FM Fitt for receiving the Weather Coonets. USA version only	TO AM RX: AM 6 FM (FM: for receiving the Weather Channels, USA version or it
Supply Voltage	4.5-15.0 VDC	6.0-18:0 ¥ DG	6.0 - 95.0 V DC
Current Gunsumption	250 pA (Fewer ett). 35 mA (Betlery saver on, saver ratio 1.5) 60 mA (Betlery saver on) 160 mA (Betlery) 800 mA (Transmit AAt: 1.5W Samer @ 7.4V) 800 mA (Transmit AAt: 0.5W Samer @ 4.5V)	20 pA (Fewer etf) 20 mA (Batlety sayer on, saver ratio 15) 80 mA (Spoilch on) 270 mA (Neceive) 0.9 A (Transmit 1.5 W Cartier)	250 pA (Pawer off) 35 mA (Battlery selection, switch 195) 60 mA Squarks onl 200 mA (Transmit 1.5 W Surrier)
Températura Randa	-22"Ftr+140"F(-30"0tr+60"5)	+34°F to +540°F (-10°G to +460°C)	+54 "F for +140"F (-50" G for +80" G)
Antenna Connector	BNCType	BNCType	BNCType
Casa Siza (WidteCl)	2,36" x 3.74" x 1.12* 660 x 96 x 28.5 mm 操行法-100月	2.4" x 4.7" x 1.2" (80 x 120 x 32 mm W 円相 44)	全点等" x 4.0.9" x 1.2" 提及 x 70.4 x 30.5 mm; 有 kn 40 4 in the mi
Weight Lapprox.	9.9 ap. (245 g) lefth FNS-40L1 and aptentia.	TSJ og (多知 g) yeith FNR-83 and enterma	12.7 oz (360 g) with FNB-83, anterna, and ball city
Receiver			
Circuit Type	Double-consension Superheterodyne	Dauble-conversion Superheterodyne	Double-conversion Superhebrodyne
Fig.	35,4 MHz & 450 WHz (AM/NFM) 45,65 MHz & 10,7 MHz (AFM)	35.4 MHz 4.450 MHz	47,25 MHz N 450 KHz
Seria Brita	##-108 MHz: Better than 2 pV Her To do 5 MAD with 1 pHz tone ## 20.5 kHz deventory 106 MHz-136 KP5 MHz: Better than 1 pV Her 6 dB ToN with 1 kHz tone ## 20.5 montalation) BRS-01 - BRS-21: Better than 0.52 pV Her To dB 3/N with 1 kHz lone ## 3.5 kHz seviation) WYS-61 - VYX-10; Delter than 0.6 pV Her To dB 3/N with 1 kHz tone ## 3.5 kHz seviation)	Better then this give for a difficulty to the power mediantions	AM: Better then 0 if yill (for 6 all 5/M with 1 kits; 36 % modulation) EM: Better than 0 if yill der 12 all \$1MAD)
Relectably	Add/Fish Marro Sham & Mids/ +8 dB WFM, Merro Sham 200 MHz/ -6 dS	More than 8 Mills/46 (d)	More than # 10/20-9:49
Adjacent Cel. Selectivity	AM/FM: Less than 26 kHz/ - 60 dB WFM: Less than 300 kHz/ - 20 dB	Less than 25 kHz/-60 dik	Litera Warn 26 MHz/460 dB
A [®] Output (Internal speaker)		0.6 W @ 16 Chmé, TO % THE	0.7 W @ 18 Chms. 10 % THD
Transmitter			
Proviet Cultrial	5.0 W (PEP), 1.5 W (Catnet Power) @ 7.4 V DC	6.0 W (PEP), 1.5 W (Cather Power) 49 7.2 V DC	5.0 W (PE%, 1.5 W (Cartlet Power) @ 7.2 V 0.0
Frequency Stability	Better than ±2.5 apm 	Better than ±10 ppm (+34°F to +140°F, -10°C to +50°C)	Better than ±10 ppm (+54°Ftx+140°F, -30°C (±+80°C)
Modulation System	Lay Leyel Ampilluse Mosulation	Low Level Amplituse Mosulation	Low Level Amplitude Modulation
Spurious Emission	> 80 dB below carrier	> 80 dB below carrier	> 60 dB being center
Int. Microphore Type	Consistant	Ganderaer	Condensitr
Ext Mis. Impediator	350 Okme	150 Cetra	15.0 Ohma

Asked this framers: We have recide this bloomins as described in describes and annual as possible. We reserve the right transpar at any lime in equipment, updated increases, and annual as possible, the insurance rings may he different in each countries. From accommence atoms being that he mandate it each countries in the first had been countries. From the start when the first had been added a first the first had been added as the first had been



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